

**ABSTRACT OF THE DISCLOSURE**

Improved method for separating gases from a gas mixture, whereby the gas mixture to be treated is led through a membrane separator (3) by means of a compressor installation (2) and whereby the compressed gas mixture to be treated is cooled in the compressor installation (2), among others in order to separate condensate from the gas mixture, after which, as it leaves the compressor installation (2), it will be re-heated before it ends up in the membrane separator (3), characterized in that, in order to re-heat the gas mixture to be treated as it leaves the compressor installation (2), use is made of the recuperation heat of the compressor installation (2) itself.